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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/820,331	04/08/2004	Harald Schmitzer	DT-6788	8547
30377 DAVID TORE	7590 08/27/2007 N, ESQ.		EXAM	INER
ABELMAN FRAYNE & SCHWAB 666 THIRD AVENUE			LOPEZ, MICHELLE	
	VENUE NY 10017-5621		ART UNIT	PAPER NUMBER
			3721	·
			MAIL DATE	DELIVERY MODE
			08/27/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)		
Office Action Summary		10/820,331	SCHMITZER ET AL.		
		Examiner	Art Unit		
		Michelle Lopez	3721		
Period f	The MAILING DATE of this communication ap or Reply	pears on the cover sheet wi	th the correspondence address		
WHI - Ext afte - If N - Fail Any	HORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING Densions of time may be available under the provisions of 37 CFR 1. or SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	NATE OF THIS COMMUNIO 136(a). In no event, however, may a rewill apply and will expire SIX (6) MON e, cause the application to become AB	CATION. eply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).		
Status					
1)🛛	Responsive to communication(s) filed on 23 Å	<u> 1arch 2007</u> .			
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This action is non-final.				
3)	Since this application is in condition for allowa	nce except for formal matte	ers, prosecution as to the merits is		
	closed in accordance with the practice under	Ex parte Quayle, 1935 C.D	. 11, 453 O.G. 213.		
Disposi	tion of Claims				
4)🖂	Claim(s) 1-14 is/are pending in the application	·			
	4a) Of the above claim(s) is/are withdra	wn from consideration.			
•	Claim(s) is/are allowed.	•			
6)⊠	Claim(s) <u>1-14</u> is/are rejected.				
7)[_	Claim(s) is/are objected to.				
8)	Claim(s) are subject to restriction and/c	or election requirement.			
Applicat	tion Papers				
9)[The specification is objected to by the Examine	er.			
10)	The drawing(s) filed on is/are: a) acc		•		
	Applicant may not request that any objection to the				
441	Replacement drawing sheet(s) including the correct				
11)	The oath or declaration is objected to by the Ex	kaminer. Note the attached	Office Action or form PTO-152.		
Priority	under 35 U.S.C. § 119				
	Acknowledgment is made of a claim for foreign All b) Some * c) None of:	priority under 35 U.S.C. §	119(a)-(d) or (f).		
	1. Certified copies of the priority document	s have been received.			
	2. Certified copies of the priority document	s have been received in Ap	pplication No		
	3. Copies of the certified copies of the prior	•	received in this National Stage		
	application from the International Burea	, , , , , , , , , , , , , , , , , , , ,			
* ;	See the attached detailed Office action for a list	of the certified copies not i	received.		
Attachmer	nt(s)				
_	ce of References Cited (PTO-892)		ummary (PTO-413)		
	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08))/Mail Date Iformal Patent Application		
	er No(s)/Mail Date	6) 🔲 Other:	•		

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 3/23/07 has been entered.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 and 3-5 are rejected under 35 U.S.C. 103(a) as being obvious over Mayr EP1393864 in view of Bongers-Ambrosius et al. 6,520,266.

Mayr discloses a hand-held electric machine tool with an at least partly rotary-driven tool receptacle for a tool and a press switch arranged at a handle on a workpiece side for activating a connection of a power source 9 to an electric motor 1 connected to control electronics 7 that are connected to a sensor 6, wherein the sensor is arranged between the tool receptacle 5 and the handle, but does not disclose wherein said sensor is a force sensor that measures an axial pressing force of the hand-held electric machine tool pressing against a workpiece. However, Bongers-Ambrosius teaches the concept of a hand held electric machine tool comprising a force sensor 12 which measures an axial pressing force of the machine tool against a workpiece and a

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control unit for the purpose of controlling the operation of the machine tool in accordance with said measured axial force as shown in col. 3, lines 5-19. It would have been obvious to one having ordinary skill in the art to have substituted Mayr's sensor for the force sensor of Bongers-Ambrosius in order to adjust the operation of the machine tool in accordance with a measured axial force.

With respect to claim 3, Mayr also discloses wherein the control electronics 7 are controllably connected to a mode selector switch 8.

With respect to claim 4, while Mayr teaches an axially movable hammer element via a percussion mechanism not shown numerically, Mayr does not disclose wherein said hammer element is axially displaceable with respect to the tool receptacle by a maximum of 1mm. However, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide such axial displacement as claimed, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable range involves only routine skill in the art.

With respect to claim 5, Mayr discloses a control process for a hand-held tool capable of operating in a selected operating mode via 8 wherein a control of the hand-held tool is activated in a first step by actuating a press switch, i.e. a trigger, and in a second step the control controls an electric motor 1 depending on a sensed measurement by sensor 6, but does not disclose wherein said sensor is a force sensor and said motor is controlled depending on a sensed force related to an axial pressing force of the tool against a workpiece. However, Bongers-Ambrosius teaches the concept of a hand held electric machine tool comprising a force sensor 12 which measures an axial pressing force of the machine tool against a workpiece, a motor, and a control

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unit for the purpose of controlling the operation of the motor in accordance with the measured axial force as shown in col. 3, lines 5-19. It would have been obvious to one having ordinary skill in the art to have substituted Mayr's sensor for the force sensor of Bongers-Ambrosius in order to control the operation of the motor in accordance with a measured axial force.

Claims 2 and 6-14 are rejected under 35 U.S.C. 103(a) as being obvious over Mayr EP1393864 in view of Bongers-Ambrosius et al. 6,520,266, and further in view of Gilmore 6,836,614.

Mayr as modified by Bongers-Ambrosius discloses the invention as described above including a press switch, but does not disclose wherein said press switch is a potentiometer having discrete switching states. However, Gilmore teaches the concept of an electrical power tool having a switch as a potentiometer 14,15 having discrete switching states for the purpose of controlling an output torque of said tool in discrete incremental amounts. It would have been obvious to one having ordinary skill in the art to have provide Mayr's invention as modified by Bongers-Ambrosius and further having a potentiometer as taught by Gilmore in order to control an output torque of the tool in discrete incremental amounts.

With respect to claims 6 and 8-10, it is deemed that Gilmore provides a time dependant control wherein after an activation period it is capable of controls an electric motor as a control function increasing progressively with respect to time as shown in col. 2, lines 34-40 (claim 6); wherein the control controls the motor independent from an amount of a sensed measurement by a sensor rather dependent of an operator input as shown in col. 2, lines 40-45 (claims 8 and 10); wherein the control of the tool is deactivated when the trigger is released as shown in col. 13, lines 34-36 (claim 9).

With respect to claim 7, Mayr discloses wherein the control always controls the motor above a minimum rotational speed which is dependant upon the selected operating mode selected as shown in col. 1, lines 54-63as shown in col. 2, lines 40-50.

As far as claims 11-13 were understood, while Gilmore teaches the concept of a control circuit for controlling operation of an electric motor of a power tool depending on a time period of a trigger actuation and release of the trigger as shown in col. 13, lines 10-36, Gilmore does not disclose wherein said control is performed by activation and deactivation of said trigger within a period less than 0.5 s. and wherein the control is deactivated by a repeated triggering actuation of the trigger over a time period of a maximum of 0.5 s. However, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provided such period of time as claimed, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable range involves only routine skill in the art.

With respect to claims 13-14, Bongers-Ambrosius teaches the concept of activation and deactivation of the control at a force peak as claimed as shown in col. 2, lines 41-67 and col. 3, lines 1-19.

Response to Arguments

Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michelle Lopez whose telephone number is 571-272-4464. The examiner can normally be reached on Monday - Thursday: 8:00 am - 6:00 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rinaldi Rada can be reached on 571-272-4467. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/ML/ Patent Examiner

Rinaldi I. Rada Supervisory Patent Examiner Group 3700